[c

[c4]

[c5]

[c6]

[c8]

Claims

- [c1] 1.A system for controlling a medical device through voice commands, comprising:
 - a medical device for performing at least one of interventional and diagnostic procedures;
 - an input unit for receiving a voice command identifying a function associated with one of a diagnostic and interventional procedure; and a control module for directing a medical device to perform the function based on said voice command.
- [c2] 2.The system of claim 1 wherein said input unit is a microphone.
- [c3] 3.The system of claim 1 further including a voice decoder for decoding said voice command into a basic signal.
 - 4. The system of claim 3 further including a protocol translator for converting said basic signal into a signal code representing the function identified by said voice command.
 - 5. The system of claim 4 wherein said control module includes a processing unit for directing said medical device to perform said function designated by said signal code.
 - 6. The system of claim 4 further including a transmitter for transmitting said signal code to said control module.
- [c7] 7.The system of claim 1 wherein said medical device is an interventional medical device.
- 8.A system for controlling a medical device through voice commands, comprising:

 a medical device for performing one of a medical diagnostic and interventional procedure:
 - a microphone for receiving a voice command identifying a function associated with one of said medical diagnostic and interventional procedure; a voice decoder for decoding said voice command into a basic signal; and
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a protocol translator for converting said basic signal into a signal code representing said function identified by said voice command; and a processing unit for directing said medical device to perform said function designated by said signal code.

- [c9] 9.The system of claim 8 wherein said medical device is an interventional medical device.
- [c10] 10.The system of claim 8 wherein said signal code is an infrared (IR) signal code.
- [c11] 11.The system of claim 8 wherein said signal code is a radio frequency (RF) signal code.
- [c12] 12.The system of claim 8 wherein said medical device is a magnetic resonance imaging (MRI) device.
- [c13] 13. The system of claim 8 wherein said medical device is a computerized tomography imaging device.
- [c14] 14.The system of claim 8 wherein said medical device is a fluoroscopic imaging device.
- [c15] 15.The system of claim 8 further including:
 a transmitter associated with said microphone, wherein said transmitter
 transmits said signal code, and
 a receiver provided at said medical device for receiving said signal code,
 wherein said medical device and said microphone are remotely located from one
 another.
- [c16] 16.The system of claim 15 further including a remote control, wherein said remote control includes a remote control receiver for receiving said signal code transmitted from said transmitter, and wherein said remote control transfers said signal code to said receiver provided at said medical device.
- [c17]
 17.A method of controlling a medical device through voice commands,
 comprising:

[c20]

[c21]

speaking a voice command into a microphone, said voice command identifying a function associated with one of a diagnostic and interventional procedure; decoding said voice command into a basic code;

converting said basic code into a signal code representing the function identified by said voice command;

transmitting said signal code to a receiver of a medical unit including the medical device; and

directing said medical device to perform said function designated by said signal code.

- [c18]18. The method of claim 17 wherein said transmitting step includes wirelessly transmitting said signal code to the receiver of the medical unit.
- [c19] 19. The method of claim 17 wherein said transmitting step includes transmitting said signal code through infrared signals to the receiver of the medical unit.
 - 20. The method of claim 17 wherein said transmitting step includes transmitting said signal code through radio frequency signals to the receiver of the medical unit.
- 21.A system for operating an interventional fluoroscopic imaging apparatus through voice commands, comprising: an interventional fluoroscopic imaging device for performing one of a medical diagnostic and interventional procedure; an input unit for receiving a voice command identifying a function associated with one of a diagnostic and interventional procedure; a voice decoder for decoding said voice command into a basic signal;
 - a protocol translator for converting said basic signal into a signal code representing said function identified by said voice command; and a processing unit for directing said interventional fluoroscopic imaging apparatus to perform said function designated by said signal code.
- 22. The system of claim 21 wherein said input unit is a microphone. [c22]
- [c23] 23. The system of claim 21 further including: a transmitter associated with said microphone, wherein said transmitter

wirelessly transmits said signal code, and a receiver provided at said medical device for receiving said signal code, wherein said medical device and said microphone are remotely located from one another.

- [c24] 24.The system of claim 21 wherein said signal code is an infrared (IR) signal code.
- [c25] 25.The system of claim 21 wherein said signal code is a radio frequency (RF) signal code.
- [c26] 26A method of controlling an interventional fluoroscopic imaging device through voice commands, comprising:

 speaking a voice command into an input unit, said voice command identifying a function associated with one of a diagnostic and interventional procedure; decoding said voice command into a basic code; converting said basic code into a signal code representing the function identified by said voice command; transmitting said signal code to a receiver of a medical unit including the interventional fluoroscopic imaging device; and directing the interventional fluoroscopic imaging device to perform said function designated by said signal code.
- [c27] 27.The method of claim 26 wherein said transmitting step includes wirelessly transmitting said signal code to the receiver of the medical unit.
- [c28] 28. The method of claim 26 wherein said transmitting step includes transmitting said signal code through infrared signals to the receiver of the medical unit.
- [c29] 29.The method of claim 26 wherein said transmitting step includes transmitting said signal code through radio frequency signals to the receiver of the medical unit.18.
- [c30]
 30.A system for operating an interventional medical device through voice commands, comprising:
 an interventional medical device for performing one of a medical diagnostic and

interventional procedure; and

- a processing unit for directing said medical device to perform a function based on a voice command, said processing unit including:
- a voice decoder for decoding said voice command into a basic signal; and a protocol translator for converting said basic signal into a signal code representing said function identified by said voice command, said processing unit directing said medical device to perform said function designated by said signal code.
- [c31] 31.The system of claim 30 wherein said interventional medical device is a magnetic resonance imaging (MRI) device.
- [c32] 32.The system of claim 30 wherein said interventional medical device is a computerized tomography imaging device.
- [c33] 33.The system of claim 30 wherein said interventional medical device is a fluoroscopic imaging device.